

FINAL REPORTS/MANUALS/TRAINING COURSES BY APPLIED METEOROLOGY UNIT TEAM MEMBERS AS OF FEBRUARY 2006
(AMU AUTHORS IN BOLD FONT)

<i>Author(s)</i>	<i>Title</i>	<i>Date of Publication</i>	<i>NASA Contractor Report #</i>
Wheeler, Mark, and Jonathan Case	Analysis of Rapidly Developing Low Cloud Ceilings in a Stable Environment	January 2006	2006-214193
Mark Wheeler	Updated ANVIL Threat Corridor Forecast Tool	November 2005	Memorandum
Jonathan Case	ARPS Optimization and Training Extension Task Summary	November 2005	Memorandum
Lambert, Winifred, and Mark Wheeler	Objective Lightning Probability Forecasting for Kennedy Space Center and Cape Canaveral Air Force Station	September 2005	2005-212564
Short, David, and Mark Wheeler	Hail Index: Phase I	August 2005	Memorandum
Short, David, and Robert Lane	Effect of Clouds on Shuttle Imaging	February 2005	2005-211538
Dye, James, Sharon Lewis, Monte Bateman, Douglas Mach, Francis Merceret , Jennifer Ward and Cedric Grainger	Final Report on the Airborne Field Mill Project (ABFM) 2000-2001 Field Campaign	November 2004	NASA/TM-2004-211534
Case, Jonathan and William Bauman	Tower Mesonetwork Climatology and Interactive Display Tool	October 2004	2004-211526
Ward, Jennifer, and Francis Merceret	Electric Field Magnitude and Radar Reflectivity as a Function of Distance from Cloud Edge	September 2004	NASA/TM-2004-211530
Short, David, and Mark Wheeler	Anvil Transparency Relationship to Radar Reflectivity	August 2004	Memorandum
Jonathan Case	Reference Guide for the Real-Time ARPS/ADAS at the National Weather Service in Melbourne, FL	February 2004	Manual
Jonathan Case	ARPS Optimization and Training Task Summary	February 2004	Memorandum
Bauman, William	Shuttle Imaging Weather Evaluation Concept Study	November 2003	Memorandum
Wheeler, Mark	Severe Weather Event on 4 March 2003	November 2003	Memorandum
Short, David, and Mark Wheeler	MiniSODAR™ Evaluation	October 2003	2003-211192

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Case, Jonathan	Reference Guide for the Applied Meteorology Unit Source-Code Modifications to ARPS Version 4.5.2	July 2003	Manual
Lambert, Winifred	Extend Statistical Short-Range Guidance for Peak Wind Speed Analyses at the Shuttle Landing Facility: Phase II Results	June 2003	2003-211188
Ward, Jennifer, Francis Merceret , and Cedric Grainger	An Automated Cloud-edge Detection Algorithm Using Cloud Physics and Radar Data	June 2003	NASA/TM-2003-211189
Case, Jonathan, John Manobianco , John Lane, and Christopher Immer	A New Objective Technique for Verifying Mesoscale Numerical Weather Prediction Models	May 2003	2003-211187
Lambert, Winifred	Analysis of Rain Measurements in Support of the STS-107 Investigation	April 2003	Memorandum
Case, Jonathan	LDIS Optimization and Training Task Summary	March 2003	Memorandum
Case, Jonathan	Reference Guide for the Real-Time ADAS at the Spaceflight Meteorology Group in Houston, TX	March 2003	Manual
Case, Jonathan	Reference Guide for the Real-Time ADAS at Melbourne, FL	March 2003	Manual
Short, David , and Mark Wheeler	Extend AMPS Moisture Analysis	March 2003	Memorandum
Wheeler, Mark , and David Short	Phase III: Improved Anvil Forecasting	February 2003	Memorandum
Case, Jonathan	Near Storms Environment Task Summary	January 2003	Memorandum
Case, Jonathan , and Mark Wheeler	Final Report on Land-Breeze Forecasting	December 2002	2002-211181
Lambert, Winifred	Statistical Short-Range Guidance for Peak Wind Speed Forecasts on Kennedy Space Center/Cape Canaveral Air Force Station: Phase I Results	November 2002	2002-211180
Short, David , and Mark Wheeler	AMPS Moisture Analysis	July 2002	Memorandum
Short, David , and Mark Wheeler	Improved Anvil Forecasting: Phase II Final Report	April 2002	2002-211170

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Dianic, Allan	Low Temperature Recovery Forecast Tool	April 2002	Memorandum
Merceret, Francis , and Jennifer Ward	Attenuation of Weather Radar Signals Due to Wetting of the Radome by Rainwater or Incomplete Filling of the Beam Volume	April 2002	NASA/TM-2002-211171
Case, Jonathan	Improvements to the Real-time ADAS at SMG and NWS MLB	November 2001	Memorandum
Case, Jonathan , and Allan Dianic	ERDAS RAMS Data Transfer Mechanism	May 2001	Memorandum
Lambert, Winifred	Statistical Short-Range Forecast Guidance for Cloud Ceilings Over the Shuttle Landing Facility	August 2001	2001-210264
Wheeler, Mark , and John Manobianco	Updated Neumann-Pfeffer Thunderstorm Probability Index	June 2001	Memorandum
Case, Jonathan	Final Report on the Evaluation of the Regional Atmospheric Modeling System in the Eastern Range Dispersion Assessment System	June 2001	2001-210259
Short, David	Phase II: SIGMET IRIS Processor Evaluation Task	April 2001	Memorandum
Case, Jonathan	Implementation of a Real-Time LDIS at SMG and NWS MLB	February 2001	Memorandum
Evans, Randolph	Delta II Explosion Plume Analysis Report	2000	2000-208582
Case, Jonathan	Interim Report on the Evaluation of the Regional Atmospheric Modeling System in the Eastern Range Dispersion Assessment System	2000	2000-208576
Short, David , and Mark Wheeler	Exploit NEXRAD: Extended Evaluation of Core Aspect Ratio	November 2000	Memorandum
Wheeler, Mark	Detecting Chaff Source Regions	August 2000	Memorandum
Lambert, Winifred	Improved Anvil Forecasting: Phase I Final Report	2000	2000-208573
Short, David	Final Report on IRIS Product Recommendations	2000	2000-208572
Case, Jonathan	Simulation of a Real-time Local Data Integration System over East-Central Florida	November 1999	1999-208558
Manobianco, John , and Robert Palmblad	Final Report on Evaluation of Wind Profiler Data	1999	1999-208556

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Ebersole, Dennis, Francis Merceret , and Brian Smith	The Doppler Radar Wind Profiler Project: Vector Analysis of Wind Changes Affecting Shuttle Launch at the Kennedy Space Center	1999	NASA-AMATYC-NSF.C.T
Merceret, Francis	Estimating the Effect of Sensor Spacing on Peak Wind Measurements at Launch Complex 39	March 1999	TM-1999-208544
Manobianco, John and Jonathan Case	Final Report on Prototype Local Data Integration System and Central Florida Data Deficiency	January 1999	1998-208540
Nutter, Paul , and John Manobianco	An Extended Objective Evaluation of the 29-km Eta Model for Weather Support to the United States Space Program	July 1998	1998-207910
Lambert, Winifred , and Gregory Taylor	Data Quality Assessment Methods for the Eastern Range 915 MHz Wind Profiler Network	June 1998	1998-207906
Wheeler, Mark	WSR-88D Cell Trends Final Report	May 1998	207904
Wheeler, Mark	1997 MDPI Results Memorandum	November 1997	Memorandum
Manobianco, John , and Paul Nutter	Evaluation of the 29-km Eta Model for Weather Support to the United States Space Program	September 1997	205409
Lambert, Winifred	LDAR Data Compression and Reduction	May 1997	
Wheeler, Mark	Report on the Radar/PIREP Cloud Top Discrepancy Study	April 1997	204381
Wheeler, Mark	Weather Events on 13 August 1996	March 1997	Memorandum
Lambert, Winifred , and Mark Wheeler	Final Report on the AMU NEXRAD Exploitation Task	January 1997	203009
Rosati, Lou, Ed Harkins, and Ann Yersavich	Final Report on the Cost-Benefit Study for the SLF Meteorological Equipment	November 1996	-
Drape, Gaylen, and Ann Yersavich	Lightning Detection And Ranging (LDAR) Computer Based Training Course Version 1.1	July 1996	-
Lambert, Winifred	Software Test Procedures for MSFC Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler Revision 2	June 1996	Manual

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Lambert, Winifred	Test Report for the Modifications to the Display Software in NASA's 50 MHz Doppler Radar Wind Profiler Revision 2	June 1996	Manual
Lambert, Winifred	Maintenance Manual for the MSFC Wind Algorithm Software in NASA's 50 MHz Doppler Radar Profiler Revision 2	June 1996	Manual
Lambert, Winifred	User's Manual for the MSFC Wind Algorithm in NASA's 50 MHz Doppler Radar Profiler Revision 2	June 1996	Manual
Lambert, Winifred	Software Requirements Specification for the New Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler Revision 2	June 1996	Manual
Evans, Randolph	Final Report on the Evaluation of the Emergency Response Dose Assessment System (ERDAS)	June 1996	201353
Wheeler, Mark	Verification and Implementation of Microburst Day Potential Index (MDPI) and Wind INDEX (WINDEX) Forecasting Tools at Cape Canaveral Air Station	June 1996	201354
Manobianco, John	Report on the Installation and Evaluation of the Mesoscale Atmospheric Simulation System (MASS)	May 1996	201151
Schumann, Robin	Maintenance Manual for F-Key Menu Systems the AMU Developed for the MIDDs	February 1996	Manual
Merceret, Francis	The Effect of Sensor Sheltering and Averaging Techniques on Wind Measurements at the Shuttle Landing Facility	October 1995	NASA/TM 111262
Merceret, Francis	The Effect of Sensor Spacing on Wind Measurements at the Shuttle Landing Facility	January 1995	3529
Schumann, Robin	Artificial Neural Network to Forecast Short-Term Cloud Cover	July 1994	-
Taylor, Gregory	Report on the Comparison of the Scan Strategies Employed by the Patrick Air Force Base WSR-74C/McGill Radar and the NWS Melbourne WSR-88D Radar	July 1994	196291
Wheeler, Mark	Final Report on the Analysis of Rapidly Developing Fog at the Kennedy Space Center	May 1994	195888
Yersavich, Ann	Final Report on the Evaluation of ASOS for the Kennedy Space Center's Shuttle Landing Facility	March 1994	195685
Schumann, Robin	Software Test Procedures for MSFC Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler	February 1994	Manual

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Schumann, Robin	Maintenance Manual for the MSFC Wind Algorithm Software in NASA's 50 MHz Doppler Radar Profiler	February 1994	Manual
Schumann, Robin	User's Manual for the MSFC Wind Algorithm in NASA's 50 MHz Doppler Radar Profiler	February 1994	Manual
Taylor, Gregory	Final Report on the Implementation and Evaluation of the New Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler	December 1993	194880
Atchison, M. Kevin	Shuttle Landing Facility Cloud Cover Study: Climatological Analysis and Two-Tenths Cloud Cover Rule Evaluation	May 1993	193016
Atchison, M. Kevin	Analysis of a Wintertime Northeast Flow Case at KSC	April 1993	-
Schumann, Robin	Software Requirements Specification for the New Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler	April 1993	Manual
Atchison, M. Kevin	STS-48 Case Study 17-18 September 1991	March 1992	190147